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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,872	08/30/2001	Robert R. Wampler	38190/233787	9504

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EXAMINER

CHANG, JUNGWON

ART UNIT	PAPER NUMBER
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2154

DATE MAILED: 10/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/942,872

Applicant(s)

WAMPLER, ROBERT R.

Examiner

Jungwon Chang

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action is in response to Amendment filed on 9/1/2005. Claims 1-21 are presented for examination.
2. The rejection under 35 U.S.C. 112, second paragraph is withdrawn in view of the amendment.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. **Claims 1-21** are rejected under 35 U.S.C. 102(b) as being anticipated by Taylor et al. (US 5,991,528).

5. As for claim 8, Taylor discloses a system, a method, and a computer program product for controlling the operation of at least one motion device comprising at least one controllable element, said system comprising:

a setup component (Expert System 100, Fig. 2) capable of extracting process information (col. 8, line 57 – col. 9, line 61; number of processes; names of processes; process information) from electronic simulation information (MGDF 80, Fig. 2; Figs. 5,

6A, 6B, 7; col. 8, line 57 – col. 9, line 61), wherein the electronic simulation information is representative of information regarding the at least one motion device and, when the at least one motion device is configured to operate on at least one object (col. 6, line 66 – col. 7, line 12; col. 8, line 65 – col. 9, line 11; col. 9, lines 43-61), the electronic simulation information having been configured for simulating operation of the at least one motion device produced by a set of operation information (col. 7, lines 13-19, 36-59; col. 8, lines 38-56), wherein said setup component is further capable of formatting the process information into neutral process information (process data file 104, Fig. 2; col. 8, lines 10-16; neutral source code is stored in process data file 104), wherein the neutral process information is in a format independent of a format of the electronic simulation information (col. 7, line 60 – col. 8, line 16); and

at least one motion command component (motion/process data generation programs 110, Fig. 2), capable of receiving the neutral process information from said setup component, wherein each motion command component is associated with at least one motion device, wherein each motion command component is capable of interpreting the received neutral process information into operation information for the at least one controllable element of each respective motion device, wherein the operation information depends on a type of the at least one motion device, and wherein each motion command component is further capable of distributing the operation information to the at least one controllable element of each respective motion device to thereby control the operation of the respective motion devices (col. 8, lines 17-36; Figs. 1 and 2).

6. Claims 1 and 15 are subject to the same limitations as claim 8, therefore the same rejections apply.

7. As for claim 9, Taylor discloses, a system according to claim 8, wherein the at least one motion device comprises a plurality of motion devices, said setup component is capable of interpreting the neutral process information into operation information specific to the type of each of the plurality of motion devices, and wherein each motion command component is capable of distributing the operation information to the at least one controllable element of each respective motion device of the plurality of motion devices (col. 7, line 36 - col. 8, line 36, "Expert system 100...control system 24.").

8. Claims 2 and 16 are subject to the same limitations as claim 9, therefore the same rejections apply.

9. As for claim 10, Taylor discloses a system according to claim 8, wherein the electronic simulation information comprises electronic simulation information in at least one format (inherent), and wherein said setup component is capable of formatting the process information extracted from the electronic simulation information into the neutral process information in a neutral format independent of the at least one format of the electronic simulation information (col. 7, line 36 - col. 8, line 16, "Expert system 100...data file 104.").

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10. Claims 3 and 17 are subject to the same limitations as claim 10, therefore the same rejections apply.

11. As for claim 11, Taylor discloses a system according to claim 11, wherein the at least one motion device operates according to operation information in the at least one format, and wherein each motion command component is capable of interpreting the neutral process information into operation information in the format of each respective motion device (col. 8, lines 17-36, "Motion/process data...control system 24.").

12. Claims 4 and 18 are subject to the same limitations as claim 11, therefore the same rejections apply.

13. As for claim 12, Taylor discloses a system according to claim 8, wherein the electronic simulation information comprises electronic simulation information in at least one format, wherein the at least one motion device operates according to operation information in at least one format, wherein said setup component is capable of formatting the process information extracted from the electronic simulation information into the neutral process information in a neutral format independent of the at least one format of the electronic simulation information, and wherein each motion command component is capable of interpreting the neutral process information into operation information in the format of each respective motion device (col. 7, line 36 - col. 8, line 16, "Expert system 100...data file 104.").

14. Claims 5 and 19 are subject to the same limitations as claim 12, therefore the same rejections apply.

15. As for claim 13, Taylor discloses a system according to claim 12, wherein said setup component is capable of formatting the process information into the neutral process information in a neutral format independent of the at least one format of the electronic simulation information, and further independent of the at least one format of the operation information of the at least one motion device (col. 7, line 36 - col. 8, line 16, "Expert system 100...data file 104.").

16. Claims 6 and 20 are subject to the same limitations as claim 13, therefore the same rejections apply.

17. As for claim 14, Taylor discloses a system according to claim 8, wherein the at least one motion device comprises at least one machine tool (machine tools 30, Fig. 1), and wherein each motion command component is capable of distributing the operation information to each respective machine tool to thereby control the operation of the respective machine tools (col. 8, lines 17-36, "Motion/process data...control system 24.").

18. Claims 7 and 21 are subject to the same limitations as claim 13, therefore the

same rejections apply.

Response to Arguments

19. In the remarks, applicants argued in substance that:

(1) On page 11 of the Remarks filed on 9/1/2005, Applicant asserts that Taylor fails to teach or suggest “electronic simulation information configured for simulating operation of motion device, where process information can be extracted from the electronic simulation, formatted, interpreted and distributed as operation information to control motion device.”

In reply to the argument (1): The Examiner respectfully disagrees. Taylor clearly teaches that electronic simulation information (MGDF 80, Fig. 5; Figs. 6A, 6B, 7) configured for simulating operation of motion device (col. 6, line 66 – col. 7, line 12; col. 8, line 65 – col. 9, line 61), where process information can be extracted from the electronic simulation (process section; 152, fig. 5; process name; process info; process section 152; fig. 6A, 6B; process name; process info; 170, fig. 7; MGDF will now be described with reference to Figs. 6, 6A and 6B; col. 8, line 57 – col. 9, line 11; col. 11, lines 25-42), formatted (systems 106 and 108 are comprised of a plurality of expert manufacturing programs which generate device controller program code in the form of a neutral source code; col. 7, line 60 – col. 8, line 16), interpreted (neutral source code is comprised of a series of operating instructions in a high level programming language, suitable for conversion to a low level language; col. 8, lines 10-26); and distributed as operation information to control motion device (Figs. 1 and 2; col. 4, lines 35-67; col. 5,

lines 1-17; col. 8, lines 17-36). Therefore, Taylor clearly teaches the limitations of the claims.

Conclusion

20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Watanabe et al, patent 6,463,358, Lee et al, 2002/0116078, Schwenke et al, patent 6,556,950, Inoue et al, patent 6,442,450 disclose a method for simulation system linked to a motion system; the simulation system outputting command to the motion system; the motion system performing operation and analysis on the command; and the motion system outputting control signal.

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jungwon Chang whose telephone number is 571-272-3960. The examiner can normally be reached on 9:30-6:00 (Monday-Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Jungwon Chang'.

Jungwon Chang
October 20, 2005